

Louisiana
ENVIRONMENTAL EDUCATION
SYMPOSIUM

February 22-23, 2013 • Baton Rouge Marriott

Build 
A Sustainable

 Future!



LouisianaEnvironmentalEducationCommission

BOBBY JINDAL
GOVERNOR



OFFICE OF THE GOVERNOR

Post Office Box 94004
Baton Rouge, LA 70804-9004

Dear Friends,

Welcome to Baton Rouge for the 2013 Louisiana Environmental Education Symposium. We are pleased to welcome distinguished guests, speakers, education professionals and other attendees to our capital city.

Environmental education plays an important role in protecting our environment for the future. This symposium is a unique opportunity to provide you, our leaders and educators, with a wealth of information and resources to carry into the classroom and into your everyday life.

The presenters and exhibitors are delighted to share their fresh ideas and enthusiasm in hopes that you will encourage our children to grow up with pride for our state and prepare them with the knowledge needed to act as good stewards of the environment. We have some of the most beautiful and diverse wetlands and natural habitats in the nation and must continue working together to protect these assets.

As we move forward, I ask that you continue your dedication to improving Louisiana. We truly appreciate the work you do. On behalf of the state of Louisiana, I wish you a productive and enjoyable stay here in Baton Rouge.



Very Truly Yours,

Governor Bobby Jindal
State of Louisiana



Dear Friends and Colleagues,

Welcome to the 16th Annual Louisiana Environmental Education Symposium. The symposium follows the theme of urging the people of Louisiana to build a sustainable future. Five Friday short courses and a wide variety of Saturday concurrent sessions offer an abundance of opportunities to witness knowledgeable, energetic speakers, learn innovative techniques, and gather novel information that will prove useful in educating students in various grade levels.

You will also have a rich opportunity to enjoy unlimited networking opportunities with exhibitors from various environmental organizations and agencies and learn how these entities benefit your educational endeavors. In addition, please take a moment to learn more about what the Louisiana Environmental Education Commission can offer you. The commission offers several grant opportunities and opportunities for students to exhibit creativity through the Environmental Awareness Art and Language Arts Contests. The commission will provide a booth where members will be eager to provide additional information.

I would like to thank the presenters, exhibitors, sponsors, volunteers, and members of the LEEC, whose hard work and devotion impart a special quality to the symposium. Special thanks are in order for our keynote speaker, Louisiana's Commissioner of Agriculture and Forestry, Dr. Michael Strain, who has remained a dear friend of the environment throughout his career as a veterinarian, farmer, legislator, and administrator. I also extend my sincere gratitude to LEEC Coordinator, Venise Ortego, and Assistant Coordinator, Juliet Raffray, who work intently to bring all the components of the symposium together to create this wonderful source of information for the educators of our state.

As state public health veterinarian working in the Infectious Disease Epidemiology Section of the Louisiana Department of Health and Hospitals, I am constantly reminded of the relationship of the environment to our health and general well-being. I also recognize the dedication of educators like you, who labor to better educate Louisiana's citizenry in understanding the value of the environment to every facet of our lives. I encourage you to indulge yourself in the wealth of information that will be available at this symposium, and share this information freely with students and other educators. Learn, network and gather a plethora of educational materials to take home with you. Again, your participation is what makes all this worthwhile.

Sincerely,

Gary A. Balsamo, DVM, MPH&TM
Chair, Louisiana Environmental Education Commission
State Public Health Veterinarian, Louisiana Department of Health and Hospitals

2013 Louisiana Environmental Education Commission

Board of Regents
Nancy Rabalais, Ph.D.

Environmental Advocacy
Jonathan Dearbone

LA Department of Agriculture & Forestry
Wade Dubea

LA Department of Education
Ann Wilson

LA Department of Environmental Quality
Vladimir A. Appeaning, Ph.D.

LA Dept of Health & Hospitals
Gary Balsamo, DVM, Chair

LA Department of Natural Resources
Kelley Templet

LA Department of Wildlife & Fisheries
Angela Capello

LA Environmental Education Association
(Listed by Congressional Districts)
District 2 – Dinah Maygarden, Secretary
District 3 – Allyn Rodriguez, Chair Elect
District 4 – Connie Conner, Past Chair
District 6 – Dianne Lindstedt

LA Science Teachers Association
Brenda Nixon, Ph.D.

LSU Agricultural Center
David Boldt

Professional Environmental Scientist
Deepak Bhatnagar

Southern University
Leodrey Williams, Ph.D.

LEEC Coordinator
Venise Ortego

LEEC Assistant Coordinator
Juliet Raffray



THANK YOU TO OUR *Sponsors!*

Platinum Sponsorship



Gold Sponsorship



Hosted by:



SYMPOSIUM

— Overview —



Friday, February 22 ::

8:00 AM–3:30 PM

Short Course Activities (times vary)

5:00 PM–8:00 PM

Registration

6:00 PM–8:00 PM

Social-Mixer/Meet the Exhibitors/Research Showcase [Salons III/IV]

Saturday, February 23 ::

7:00 AM–8:00 AM

Registration/Continental Breakfast [Salons III/IV]

7:30 AM–8:00 AM

LA Environmental Education Association Meeting [Salon II]

7:30 AM–12:15 PM

Exhibit Hall Open [Salons III/IV]

8:00 AM–9:00 AM

Session 1

9:10 AM–10:10 AM

Session 2

10:10 AM–10:35 AM

Break/Exhibit Hall [Salons III/IV]

10:35 AM–11:35 AM

Session 3

11:45 AM–12:45 PM

Session 4

12:50 PM

Luncheon/Keynote/Grand Door Prize [Salons I/II]

Friday Short Course Sessions

8:00 AM–4:30 PM

Innovative Designs & Practices Paving the Way to Sustainable Success Stores

TOUR

Facilitators:

Grade Levels: Gen

Charles Allen, Ph.D., Author of “Edible Plants of the Gulf South”

Edward Cazayoux, Ph.D., Architect specializing in climate responsive architecture

Katry Martin, Civil Engineer

Trish Ransom, Artist specializing in repurposing



8:00 AM–3:30 PM

Conservation Education Featuring WET, WILD, & Learning Tree

WORKSHOP

Facilitators:

Grade Levels: Gen

Wade Dubea, State Forester, LA Department of Agriculture & Forestry

Whitney Wallace, INE Program Director

8:00 AM–3:30 PM

Rainwater Harvesting – Water Conservation & Water Quality

WORKSHOP

Facilitator:

Grade Levels: Gen

Dotty Woodson, Extension Program Specialist-Water Resources, Texas A&M AgriLife

8:00 AM–3:30 PM

Native, Exotic, Invasive...Oh My!

WORKSHOP

Facilitator:

Grade Levels: 5–8

Dianne Lindstedt, Marine Education Coordinator, Louisiana Sea Grant



8:00 AM–3:30 PM

“Give a Whoop!” Whooping Crane

WORKSHOP

Facilitators:

Grade Levels: 5–12

Heather Egger, Research Associate, Pontchartrain Institute, University of New Orleans

Amy LeGaux, Disaster Recovery Coordinator, Audubon Nature Institute

Sue Ellen Lyons, Teacher, Holy Cross High School

Dinah Maygarden, Coastal Education, Pontchartrain Institute, University of New Orleans

Carrie Salyers, Endangered Species Education Outreach Biologist, LDWF



Grant Recipient Showcase

Visit the 2012 Environmental Education Research Grant recipients who will be showcasing their research projects in the Exhibit Hall on Friday evening.

Warwick Allen — “Latitudinal gradients in tritrophic interactions between arthropod herbivores of *Phragmites australis* and their natural enemies”

Our research examines how the strength of tritrophic (plant-herbivore-natural enemy) interactions varies with latitude and plant genotype, and the possible influence of these trends on the invasion success of *Phragmites australis* and other widespread invasive species. Research is conducted using observational and experimental studies in both the laboratory and field.

Ganesh Bhattarai — “Apparent competition between native and exotic genotypes of *Phragmites australis* and implication for invasion success”

I am conducting a field experiment to examine if the exotic genotype of *Phragmites* causes increased herbivory in native genotypes and if that varies with latitude. The consequence of increased herbivory on native plants is examined in a complimentary common garden experiment. My study will help understanding the invasion of coastal wetlands by the Eurasian genotype of this species.

Anthony Chow — “Differences in physiological traits between different haplotypes of *Phragmites australis*”

Phragmites australis, a common wetland species, is both a native and invasive species in North America. In addition to native haplotypes of *Phragmites*, there are also two introduced, non-native haplotypes. The results from my research demonstrate significant differences in the physiological traits between native and introduced haplotypes of *Phragmites australis*.

Brittany Miller — “Isolation and Characterization of Phages of *Agrobacterium tumefaciens*”

Bio-control can protect a plant against pests, as an alternative to pesticides, eliminating the contamination of the ecosystem by harmful chemicals. Our lab is interested in the use of phage therapy as a means to control crown gall disease caused by *Agrobacterium tumefaciens*, obviating the need for pesticides.

Jared Wolfe — “The Bluebonnet Bird Monitoring Project: Studying Birds in Baton Rouge’s Urban Forest Fragments”

The Bluebonnet Bird Monitoring Project (BBMP) is a volunteer-based program that has been monitoring bird populations in Baton Rouge since 2010 using bird banding and audio-visual census techniques. Additionally, BBMP partners with BREC to provide unparalleled hands-on environmental outreach opportunities to hundreds of local children each year. BBMP also works with LSU to train the next generation of professional ornithologists in Louisiana.

DID YOU KNOW? 2013 marks the LEEC’s

20th Year of Service!



The LEEC is now on Facebook!

Please “like” our page and share with your friends:

facebook.com/LouisianaEnvironmentalEducationCommission

KEYNOTE

— Speaker —



Dr. Mike Strain *Commissioner of Agriculture & Forestry*

Dr. Mike Strain took the oath of office for his second four-year term as Louisiana's Commissioner of Agriculture and Forestry on January 9, 2012. A native of Covington, Strain earned a Doctorate in Veterinary Medicine from LSU in 1983. In 1999, he was elected to the first of two terms as State Representative, where he served on the Agriculture Committee and chaired the Legislative Rural Caucus. He was twice named Legislator of the Year by the St. Tammany Parish Alliance for Good Government. In 2003, the LSU School of Veterinary Medicine presented Strain its Distinguished Alumni Award. Strain was awarded the Future Farmers of America's highest national award, the Honorary American Degree, in August 2009, and he was inducted into the LSU Alumni Association Hall of Distinction in May 2010. Strain was named Conservationist of the Year in January 2012. He currently serves as president of SUSTA (the Southern United States Trade Association), president of SASDA (the Southern Association of State Departments of Agriculture), and is chair of the Animal and Plant Industries Committee of NASDA (National Association of State Departments of Agriculture). Strain holds a commission from the U.S. Food and Drug Administration and is Treasurer of the Interstate Pest Control Compact. Strain is married to the former Susan Searcy of Hot Springs, Arkansas, and they have two adult children.

Buy a Plate to Educate!

Purchase Louisiana's "ENVIRONMENTAL EDUCATION PLATE" to Educate Louisiana's Citizens about our Environment. *Your purchase helps to fund Environmental Education grants for educators and students, the annual Environmental Education Symposium, and other programs designed to further environmental knowledge and stewardship in Louisiana.*

Order by phone: Call the Office of Motor Vehicles at 1-225-925-6146. Have the number of your current license plate. Ask for the Environmental Education Plate and obtain a quote, which will include a \$26* fee.

Mail your check to:

Office of Motor Vehicles
Attention Special Plate Unit
P.O. Box 64886
Baton Rouge, LA 70896

Your plate will arrive in about one week.

*\$25 goes directly to our Environmental Education programs!

Order from your car dealer: You can request an Environmental Education Plate from your car dealership upon the purchase of a new/used vehicle.



Order your plate today!

For More Information visit:

www.expresslane.org



8:00 AM - 9:00 AM Concurrent Sessions



...► **Get Smart!**

Come and participate in several exciting hands-on activities that will pique your students' interest in sustainability and make them eager to learn more. Be prepared to have fun and receive handouts that are "ready-to-use" in your classroom! Door prizes will be awarded!

[Rebecca Holloway & Allison Story, East Baton Rouge Parish School System](#)

Hands-On Workshop

Grades: K-4; 5-8

Acadia

...► ***Rabbit-Tracking: Looking for Evidence of Wildlife and Interpreting Food Webs***

Track "Swamper," the swamp rabbit, as he looks for evidence of other animals in his bottomland hardwood forest ecosystem (aka swamp). Interpret a food web, follow the energy flow, and learn how to make casts of animal tracks! Folder with lesson plans and links provided.

[Amy Ouchley, Author](#)

Hands-On Workshop

Grade: 5-8

Bienville

...► ***Sediments, Subsidence, and Sea-level Rise: the Elephant in the Wetlands***

Use simple physical and mathematical models that represent the coastline. Join an interactive discussion of subsidence rates, sea-level rise, and Mississippi River sedimentation rates which underlie all efforts to restore the Louisiana coastline. Handouts and links to graphics provided.

[Dr. Ivan Gill, University of New Orleans](#)

[Dr. Harry Roberts, Louisiana State University](#)

Hands-On Workshop

Grades: 5-8; 9-12

Vermillion

...► ***The Science of Service Learning: One School's Journey to Promote Science Knowledge through Service***

Learn how Isidore Newman School implemented science-based service-learning programs that increase student knowledge and understanding of coastal issues. Hear how elementary/middle teachers work with community partners to enrich student learning! Handouts with links and activities provided.

[Jennifer Williams, Lisa Coulon, and Elaine Sevin, Isidore Newman School](#)

Hands-On Workshop

Grade: General

Camellia

...► ***WETSHOP – A Coastal Awareness Institute***

Want a sneak peek of WETSHOP? Participate in hands-on activities that give you a "taste" of the week-long event. This week-long workshop provides 55 hours of CLUs and numerous wetlands classroom resources. Unearth the extensive bounty of our coast and learn about wetland loss, the importance of Louisiana's shores, and restoration efforts.

[MattiLynn Dantin, LA Department of Wildlife & Fisheries](#)

Hands-On Workshop; Exemplary Program

Grade: General

Magnolia

...► ***The Environmental Health Student Portal: Resources for Education and Careers***

The Environmental Health Student Portal (EHSP) promotes environmental health education and career guidance to middle/high school students. Discover experiments, readings, homework, and activities useful for all grades K-12. Learn about ToxTown, ToxMystery, and other resources. Handouts and related materials provided.

[David Duggar, LSU Health Shreveport, Health Sciences Library](#)

Lesson Demonstration; Exemplary Program

Grades: 5-8; 9-12; General

Azalea

9:10 AM - 10:10 AM Concurrent Sessions



---► **Energy Bike Workshop**

The Alliance for Affordable Energy's new workshop curriculum focuses on concepts of clean vs. dirty energy, renewable vs. non-renewable energy sources, and energy conservation. Come learn about our fun, interactive curriculum and see the bicycle generator in action! Three curriculum packets provided.

[Julia Michaels, Alliance for Affordable Energy](#)

Lesson Demonstration

Grade: K-4

Acadia

---► **Role-playing to Learn How Shrimp Travel from the Gulf of Mexico to the Boiling Pot**

Put your students into the act! Learn how to conduct a role-playing game with your students to teach sustainability concepts through the shrimp life cycle and Louisiana shrimping livelihood. Incorporate reading, math, and science skills to learn system interdependence! Digital or hard copies of materials provided.

[Lauren Land, Louisiana Sea Grant College Program](#)

Lesson Demonstration

Grade: 5-8

Bienville

---► **Sustainability Education in a World of 7 Billion**

Discover innovative, hands-on activities that examine the connections between human population growth, resource consumption, and sustainable ecosystems and communities. Engage in memorable games and simulations. Receive a CD-ROM of lesson plans!

[Sue Ellen Lyons, Holy Cross School](#)

Hands-On Workshop

Grades: 5-8; 9-12

Vermillion

---► **Classrooms in Motion - The Art of Making Movies for the Classroom**

Highlight STEM through movies! Learn to make movies from all those raw video clips you have taken. Movies are a great way to showcase student stewardship activities, communicate with other teachers or students, demonstrate classroom activities, and much more! Participants will actually make a movie! Guide for teachers provided.

[Murt Conover, Louisiana Universities Marine Consortium \(LUMCON\)](#)

Hands-On Workshop

Grade: General

Camellia

---► **Modeling the Multiple Lines of Defense for Hurricane Protection**

Capture your students' interest through these simple, hands-on activities created by the Lake Pontchartrain Basin Foundation. You will explore different methods for students to demonstrate the multiple lines of defense strategy for hurricane protection. Interactive CD and brochures provided.

[JoAnn Burke, Lake Pontchartrain Basin Foundation](#)

Hands-On Workshop

Grade: General

Magnolia

---► **Pollinator Partnership Educational Tools and Activities for Teachers and Educators**

Find out how you and your students can help improve the current pollinator status in the U.S.! You will walk through the education portion of our website, including a demonstration of our Bee Smart School Garden Kit. Your students can be a part of the solution! Handouts, materials, and links provided.

[Jennifer Blanchard, Pollinator Partnership/Honey Island Conservation Program](#)

Hands-On Workshop; Lesson Demonstration

Grade: General

Azalea

:: Break in the Exhibit Hall ::



10:35 AM - 11:35 AM Concurrent Sessions



...► *Break the Plastic Habit*

Learn how to create an awareness campaign to teach students how to use less plastic in their daily lives! Get the dirty facts on litter from Louisiana to the Great Pacific Garbage Patch. Participants will also take home nifty ideas for art projects using “garbage”! PowerPoint and Keep Louisiana Beautiful Curriculum Guide with video link provided.

[Alma Robichaux, Barataria-Terrebonne National Estuary Program \(BTNEP\)](#)

Lesson Demonstration

Grade: 5-8, 9-12

Acadia

...► *My Footprint on the Globe: Making Connections!*

Ever wonder how your day to day actions affect the planet? Engage in multi-disciplinary lessons on sustainably: making smart food choices and reducing consumption. A Rocket Stove demo will show how small lifestyle changes can decrease environmental impact! CD with all activities from session provided.

[Rose Butler, Audubon Nature Institute](#)

Lesson Demonstration

Grade: 5-8

Bienville

...► *Using GPS and GIS Technologies to Teach the Local Environment*

Add some excitement to your classroom! Use mobile GPS-enabled devices to teach map skills and collect and organize environmental data! Receive up-to-date user-friendly resources for incorporating GPS and GIS into classroom and field-based science projects. Map resources, how-to pages, and copies of activities provided.

[Dinah Maygarden and Heather Egger, University of New Orleans](#)

Lesson Demonstration

Grades: 5-8; 9-12

Vermillion

...► *What does Education for Sustainability Mean for Your Classroom?*

Participate in a “Quality of Life” classroom activity in which teachers learn how to engage students in identifying the environmental, economic, and social dimensions of features necessary for healthy communities. Learn about the Education for Sustainability project. *Education for Sustainability Guide* and *Standards*, links, and more provided.

[Lauren Land, Louisiana Sea Grant College Program](#)

Hands-On Workshop

Grade: General

Camellia

...► *Particulate Air Pollution and its Effect on Human Health*

Air pollution can have serious effects on human health when fine particles produced by incineration/combustion processes are transported and taken into the body. Construct an easy to make model that graphically depicts this process—your students will be amazed! Summary fact sheet provided.

[Maud Walsh, Eli Mitran, and Cheri McFerrin, LSU / LSU Superfund Research Program](#)

Hands-On Workshop

Grade: General

Magnolia

...► *Grant Writing Tips*

Do you want to write grants that can be funded to get additional materials and equipment for your classroom or a special event? Learn how to write quality grant proposals/applications. Tips and examples will be given on determining and providing the correct information. Handouts and links to grant opportunities provided.

[Ann Wilson, LA Department of Education](#)

Exemplary Program

Grade: General

Azalea

11:45 AM - 12:45 PM Concurrent Sessions



---► *Let's Talk Trash! - Start a Debris Removal Project to Build a More Sustainable School & Community*

Help your students become Environmental Warriors to stop debris entanglement and strangulation, and ingestion of plastics that maim and kill animals. Hands-on, higher-level thinking activities engage students in a Marine or Land Debris Removal campaign! Lesson plans and links to full curriculum provided. Receive information on a similar, soon to be announced workshop, complements of the LEEC and EPA.

[Sandra Saye Foucqueteau, Upper Point Coupee Elementary](#)

Lesson Demonstration

Grades: K-4; 5-8

Acadia

---► *Got Bot?*

We do, and you can too! Immerse yourself in the world of ROVs! Explore the Aquatic Robotics program from the Maritime Museum. Connect STEM with today's workplace, and take home ideas to use with your own students. Learn about a special summer seminar!

[Jeanne Brooks, Lake Pontchartrain Basin Maritime Museum](#)

Exemplary Program

Grades: 5-8

Bienville

---► *Teaching and Assessing 21st Century Skills in the Environmental Science Classroom*

Develop student college and career readiness skills using critical thinking, communication, collaboration, and creativity! These student-driven projects explore water quality, island biogeography, invasive species, coastal restoration, mining, and land use. Links to student products and lessons provided.

[Janell Simpson, Patrick F. Taylor Science & Technology Academy](#)

Lesson Demonstration

Grade: 9-12

Vermillion

---► *Island Time: Learning About Louisiana's Barrier Islands*

Everything you ever wanted to know about barrier islands: island anatomy, the delta lobe cycle, forces affecting barrier islands, and much more. Participate in a hands-on mapping activity to demonstrate the migration of barrier islands! Content material and lesson ideas provided.

[Murt Conover, Louisiana Universities Marine Consortium \(LUMCON\)](#)

[Dinah Maygarden, University of New Orleans \(UNO\)](#)

[Alma Robichaux, Barataria-Terrebonne National Estuary Program \(BTNEP\)](#)

Hands-On Workshop

Grade: General

Camellia

---► *New Methods of Student Inquiry into Climate Change*

Use a newly-developed, easy-to-use online tool called GeoMapApp to explore: What was Earth's climate like in the past? How will climate change affect Louisiana? What resources are there for student inquiry, research, and geospatial imagery investigations into climate? Student learning guides provided.

[Steven Babcock, LSU Laboratory School](#)

Lesson Demonstration

Grades: 9-12; General

Magnolia

---► *The Bear Facts on the Louisiana Black Bear*

Follow that bear! This presentation will map the journey of our endangered Louisiana black bears' road to recovery. Hands-on activities that illuminate general species information, current population numbers, and other little known information will be included.

[Carrie Salyers, LA Department of Wildlife & Fisheries](#)

Lesson Demonstration; Exemplary Program

Grade: General

Azalea

:: Keynote/Luncheon in Salon I/II - All are invited! ::





2013-2014 Grant RFPs Released!

The LEEC is now accepting proposals for their 2013-2014 Grants Program. The submission deadline for each of these grants is **MARCH 15, 2013**. Applications will be accepted via electronic submission only. Grant guidelines and application links can be found on our website at: www.wlf.la.gov/grant-opportunities or contact Venise Ortego at vortego@wlf.la.gov for additional information.

Educator Grants

- Based on sound scientific principles, have an environmental focus, and be designed to directly impact Louisiana students
- Those eligible: Accredited K-12 Louisiana schools
- Maximum award: **\$1,000 for 1 teacher or \$2,000 for a team**

Formal/Non-Formal Educator/Professional Development Grants

- Based on sound scientific principles, have an environmental focus, and be designed to directly impact pre-service and/or in-service educators in Louisiana
- Those eligible: Louisiana education, state, or environmental agencies, colleges, universities, or 501(C)(3) nonprofit organizations
- Maximum award: **\$2,500**

School Sustainability Grants

- Designed to encourage student learning via sustainability initiatives in EPA Region 6 K-12 schools
- Proposals to be considered are those within a specific school campus that will both actively engage students and result in a more sustainable facility
- Those eligible: Accredited K-12 schools in EPA Region 6 area – **Arkansas, Louisiana, New Mexico, Oklahoma, and Texas**
- Project funds are provided via a grant from the EPA Office of Environmental Education Sub-Grants Program to LDWF
- Maximum award: **\$5000.00**

University Research Grants:

- Post-graduate research with a focus on environmental issues
- Those eligible: Students attending Louisiana colleges or universities and who are working toward a Masters, Ph.D., or conducting Ph.D. research are eligible to apply on behalf of their school
- Maximum award: **\$1,200**



2012 GRANT RECIPIENTS

PROFESSIONAL DEVELOPMENT GRANTS

Amy G. Ouchley *Academic Distinction Fund*
 Friends of Black Bayou

RESEARCH GRANTS

Warwick Allen	<i>Louisiana State University</i>
Ganesh P. Bhattarai	<i>Louisiana State University</i>
Anthony Chow	<i>Louisiana State University</i>
Valerie Derouen	<i>Louisiana State University</i>
Sandra P. Galeano	<i>Louisiana State University</i>
Jessica Renee Henkel	<i>Tulane University</i>
Metha Klock	<i>Louisiana State University</i>
Andrew Laughlin	<i>Tulane University</i>
Brittany Miller	<i>University of Louisiana at Monroe</i>
Christopher Reid	<i>Louisiana State University</i>
Matthew Robak	<i>Tulane University</i>
Julia Sonn	<i>Tulane University</i>
Jared Wolfe	<i>Louisiana State University AgCenter</i>

EDUCATOR GRANTS

Linda Beyt	<i>L. Leo Judice Elementary School</i>
Tera LaPrarie	<i>Alexandria Middle Magnet School</i>
Paul LeBlanc	<i>L.W. Higgins High School</i>
Kerry Quarton	<i>Batiste Cultural Arts Academy</i>
Sandra Saye-Foucqueteau	<i>Upper Pointe Coupee Elementary School</i>
Judy Schmollinger	<i>Thomas Jefferson High School</i>
Janell Simpson	<i>Patrick F. Taylor Science & Tech. Academy</i>

SCHOOL SUSTAINABILITY GRANTS

Nancy Baird	<i>Archbishop Hannan High School, LA</i>
George "Brad" Beatty	<i>Oakland Heights Elementary, AR</i>
Paul Conover	<i>Ridge Elementary School, LA</i>
Lynn Danjean	<i>Creekside Junior High, LA</i>
Jeanell Sullivan	<i>St. Scholastica Academy, LA</i>
Jennifer Thomas	<i>Bale Elementary, AR</i>

Environmental Awareness Art & Language Arts Contest

The LEEC and Alcoa Foundation co-sponsored the 10th Annual Environmental Awareness Art & Language Arts Contest:

Louisiana Waters: Protect, CONSERVE, *Enjoy!*



THANK YOU to Alcoa Foundation, LEEC members, judges, and others for helping make the 10th Annual Environmental Awareness Art and Language Arts contest a HUGE SUCCESS! Over 750 entries were received for the 2012 contest, and because of the environmental awareness focus, many teachers took advantage and used this as a classroom learning activity.

The LEEC honored the winners on June 20, 2012 at a reception in the Governor's Mansion. The students' families, teachers, and principals were invited to attend the reception. LEEC members and Alcoa Foundation representatives attended the event as well. DHH State Public Health Veterinarian & Assistant State Epidemiologist, Gary A. Balsamo, DVM, MPH & TM, served as master of ceremonies and LEEC member and CWPPRA education specialist, Susan Testroet-Bergeron, delivered the congratulatory address. Kevin Boll and Glenda Anderson of Alcoa had the pleasure of presenting the awards.

All winners received cash prizes and winning entries were used to create the 2013 calendar. Top winners had their works featured on billboards and newspaper ads in their communities. Thank you, Alcoa, for making all this possible! **CONGRATULATIONS TO OUR 2012 WINNERS & THEIR TEACHERS!**

MARK YOUR CALENDAR FOR THE 2013 11TH ANNUAL ENVIRONMENTAL AWARENESS ART & LANGUAGE ARTS CONTEST!

Theme: Louisiana's Natural Resources: What's Important to You?

Deadline: Friday, April 26, 2013

Contest is open to all children in Louisiana between 5-18 years. Submission forms are available: www.wlf.la.gov/eec

2012 CONTEST WINNERS

ART WINNERS

GROUP 1 5-7 yrs	1 st	Matthew Bruno	Bonne Ecole Elementary
	2 nd	Heath McArdle	Cedarwood School
	3 rd	Amber Seal	Marigny Elementary School
GROUP 2 8-10 yrs	1 st	Ashini Modi	South Highland Magnet
	2 nd	Jadeyn Bourque	Fenton Elementary School
	3 rd	Emma Cho	Isidore Newman School
GROUP 3 11-13 yrs	1 st	Claire Leming	West Feliciana Middle School
	2 nd	LaShae Duplechain	Magnet Academy for Cultural Arts
	3 rd	Tyler LaCombe	Crowley Middle School
GROUP 4 14-18 yrs	1 st	E'shia Allen	John Curtis Christian School
	2 nd	Tuyen Daug	Helen Cox High School
	3 rd	J. Cindy Simporios	Helen Cox High School

LANGUAGE ART WINNERS

Eva Rykowsky	Homeschooled
Heath McArdle	Cedarwood School
Amanda LeBlanc	Crescent Elementary & Jr. High School
Emma Cho	Isidore Newman School
Lainie Pilant	Isidore Newman School
Kamryn Hudson	Georgetown Elementary School
Caroline Pontiff	St. Gregory Catholic School
Alexis Lang	John Curtis Christian School
Tommy Duong	DeRidder Junior High
Craig Matise	John Curtis Christian School
Trey Clark	Edward Douglas White Catholic High
Nicole Dominique	Edward Douglas White Catholic High



EXHIBITOR DIRECTORY

Barataria-Terrebonne National Estuary Program (BTNEP)

Alma Robichaux, alma@btnep.org

Bureau of Ocean Energy Management (BOEM)

Caryl Fagot, caryl.fagot@boem.gov

Coastal Wetlands Planning, Protection and Restoration Act (CWPPRA)

Susan Testroet-Bergeron, BergeronS@usgs.gov

Jean Lafitte National Historical Park and Preserve

Allyn Rodriguez, Allyn_Rodriguez@nps.gov

Keep Louisiana Beautiful

Sharon Vennen, svennen@keeplouisianabeautiful.org

LA Agriculture in the Classroom

Lynda Danos, lyndad@lfbf.org

LA Dept. of Ag & Forestry / Office of Forestry

Whitney Wallace, wwallace@ldaf.state.la.us

LA Department of Environmental Quality

Linda Brown, linda.brown@la.gov

**LA Department of Natural Resources/
Office of Coastal Management**

Steve Chustz, steve.chustz@la.gov

LA Department of Wildlife & Fisheries, Education

MattiLynn Dantin, mdantin@wlf.la.gov

**LA Department of Wildlife & Fisheries,
Endangered Species**

Carrie Salyers, csalyers@wlf.la.gov

LA Environmental Education Association (LEEA)

Mary Fuglaar, m_fuglaar@msn.com

LA Environmental Education Commission (LEEC)

Venise Ortego, vortego@wlf.la.gov

LA Project WET (Water Education for Teachers)

Joey Breaux, joey_b@ldaf.state.la.us

LA Science Teachers Association (LSTA)

Brenda Nixon, bnixon@lsu.edu

Louisiana Sea Grant

Jessica Schexnayder, jsche15@lsu.edu

LSU AgCenter 4-H Youth Wetlands Program

Ashley Mullens, awmullens@agcenter.lsu.edu

LSU Health Shreveport, Health Sciences Library

David Duggar, ddugga@lsuhsc.edu

Louisiana Universities Marine Consortium (LUMCON)

Murt Conover, mconover@lumcon.edu

**Red River National Wildlife Refuge/
USFWS & Friends of the Red River NWR**

Terri Jacobson, terri_jacobson@fws.gov

Shell

Ed Landgraf, ed.landgraf@shell.com

Uplifting the Coast Festival

Libby Foret, libby@upliftingthecoast.org

**U.S. Department of Agriculture,
Agricultural Research Service**

Deepak Bhatnagar, deepak.bhatnagar@ars.usda.gov

THANK YOU *Exhibitors!*

*We all greatly appreciate the time, effort,
information, and FREEBIES that you provide
to our participants!*

Be sure to visit our

CRAFTS TABLE

Located in the Exhibit Area!



PRESENTER DIRECTORY

Alliance for Affordable Energy

Julia Michaels, Julia@all4energy.org

Audubon Nature Institute

Rose Butler, rbutler@auduboninstitute.org

Author

Amy Ouchley, biouchley@yahoo.com

Barataria-Terrebonne National Estuary Program (BTNEP)

Alma Robichaux, alma@btnep.org

East Baton Rouge Parish School System

Rebecca Holloway, rholloway@ebrschools.org

Allison Story, astory@ebrschools.org

Holy Cross High School

Sue Ellen Lyons, slyons@holycrosstigers.com

Isidore Newman School

Jennifer Williams, jenniferwilliams@newmanschool.org

Lisa Coulon, lisacoulon@newmanschool.org

Elaine Sevin, elainesevin@newmanschool.org

Lake Pontchartrain Basin Foundation

JoAnn Burke, joann@saveourlake.org

Lake Pontchartrain Basin Maritime Museum

Jeanne Brooks, educator@lpbmm.org

LA Department of Education

Ann Wilson, ann.wilson@la.gov

LA Department of Wildlife & Fisheries, Education

MattiLynn Dantin, mdantin@wlf.la.gov

LA Department of Wildlife & Fisheries Endangered Species

Carrie Salyers, csalyers@wlf.la.gov

Louisiana Sea Grant College Program

Lauren Land, lland1@lsu.edu

Louisiana State University

Dr. Harry H. Roberts, hrober3@lsu.edu

LSU Health Shreveport, Health Sciences Library

David Duggar, ddugga@lsuhsc.edu

LSU Laboratory Schools

Steven Babcock, sbabcock@lsu.edu

LSU / LSU Superfund Research Program

Maud Walsh, evwals@lsu.edu

Eli Mitran, emitra1@tigers.lsu.edu

Cheri McFerrin, cmcfer1@tigers.lsu.edu

LA Universities Marine Consortium (LUMCON)

Murt Conover, mconover@lumcon.edu

Patrick F. Taylor Science & Technology Academy

Janell Simpson, jsimpson@pftsta.jpss.k12.la.us

Pollinator Partnership

Jennifer Blanchard, JenniferBlanchard@live.com

University of New Orleans

Dinah Maygarden, dmaygard@uno.edu

Heather Egger, hlgordon@uno.edu

Dr. Ivan Gill, igill@uno.edu

Upper Pointe Coupee Elementary

Sandra Saye Fouquetteau, sandra.saye@pcpsb.net

MANY THANKS TO OUR *Presenters!*

*We could not hold the
Symposium without you!*

**qualify for the GRAND DOOR
PRIZE by turning in your FINAL
EVALUATION at the luncheon!**



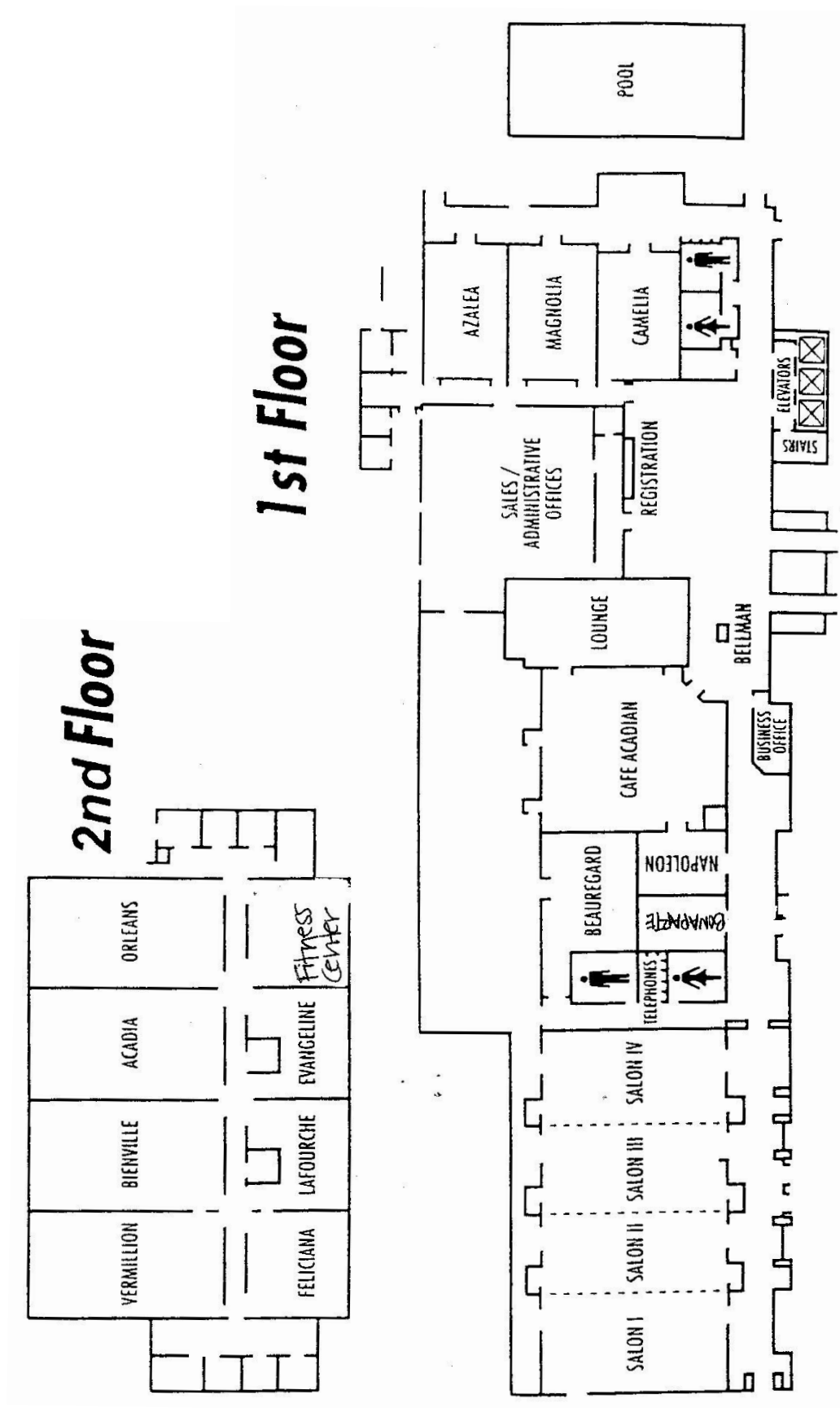


YOUR “BLUEPRINT” NOTES ::

THE LEEC NEEDS YOUR INPUT!

**PLEASE TURN IN YOUR EVALUATIONS AFTER EACH SESSION AND HAND IN
YOUR FINAL SYMPOSIUM EVALUATION AT THE LUNCHEON!**

Baton Rouge Marriott Hotel Floor Plan



Bird's-Eye View of Concurrent Sessions — Saturday, February 23, 2013

	ACADIA	BIENVILLE	VERMILLION	CAMELLIA	MAGNOLIA	AZALEA
8:00 AM – 9:00 AM	Get Smart! <i>Rebecca Holloway & Allison Story</i> East Baton Rouge Parish School System	Rabbit-Tracking: Looking for Evidence of Wildlife and Interpreting Food Webs <i>Amy Ouchley</i> Author	Sediments, Subsidence, and Sea-level Rise: the Elephant in the Wetlands <i>Ivan Gill</i> University of New Orleans <i>Harry Roberts</i> Louisiana State University	The Science of Service Learning: One School's Journey <i>Jennifer Williams, Lisa Coulton, & Elaine Sevin</i> Isidore Newman School	WETSHOP – A Coastal Awareness Institute <i>MattLynn Dantin</i> LA Department of Wildlife Fisheries	The Environmental Health Student Portal: Resources for Education & Careers <i>David Duggar</i> LSU Health Shreveport, Health Sciences Library
9:10 AM – 10:10 AM	Energy Bike Workshop <i>Julia Michaels</i> Alliance for Affordable Energy	Role-playing to Learn How Shrimp Travel from the Gulf of Mexico to the Boiling Pot <i>Lauren Land</i> Louisiana Sea Grant College Program	Sustainability Education in a World of 7 Billion <i>Sue Ellen Lyons</i> Holy Cross School	Classrooms in Motion - The Art of Making Movies for the Classroom <i>Murt Conover</i> LUMCON	Modeling the Multiple Lines of Defense for Hurricane Protection <i>JoAnn Burke</i> Lake Portchartrain Basin Foundation	Pollinator Partnership Educational Tools & Activities for Teachers & Educators <i>Jennifer Blanchard</i> Pollinator Partnership/Honey Island Conservation Program
10:10 AM – 10:35 AM	Lesson <i>K-4</i>	Lesson <i>5-8</i>	Hands-On <i>5-8, 9-12</i>	Hands-On <i>General</i>	Hands-On <i>General</i>	Hands-On; Lesson <i>General</i>
10:35 AM – 11:35 AM	Break the Plastic Habit <i>Alma Robichaux</i> Barataria-Terrebonne National Estuary Program (BTNEP)	My Footprint on the Globe: Making Connections! <i>Rose Butler</i> Audubon Nature Institute	Using GPS and GIS Technologies to Teach about the Local Environment <i>Dinah Maygarden & Heather Egger</i> University of New Orleans	What does Education for Sustainability Mean for Your Classroom? <i>Lauren Land</i> Louisiana Sea Grant College Program	Particulate Air Pollution and its Effect on Human Health <i>Maud Walsli, Eli Mitran & Cherl McFerrin</i> LSU / LSU Superfund Research Program	Grant Writing Tips <i>Ann Wilson</i> LA Department of Education
11:35 AM – 12:45 PM	Lesson <i>5-8, 9-12</i>	Lesson <i>5-8</i>	Lesson <i>5-8, 9-12</i>	Hands-On <i>General</i>	Hands-On <i>General</i>	Exemplary <i>General</i>
12:45 PM – 1:15 PM	Let's Talk Trash! - Start a Debris Removal Project to Build a More Sustainable School & Community <i>Sandra Saye Foucqueteau</i> Upper Point Coupee Elementary	Got Bot? <i>Jeanne Brooks</i> Lake Portchartrain Basin Maritime Museum	Teaching and Assessing 21 st Century Skills in the Environmental Science Classroom <i>Janell Simpson</i> Patrick F. Taylor Science & Technology Academy	Island Time: Learning about Louisiana's Barrier Islands <i>Murt Conover</i> LUMCON <i>Dinah Maygarden</i> UNO <i>Alma Robichaux</i> BTNEP	New Methods of Student Inquiry into Climate Change <i>Steven Babcock</i> LSU Laboratory School	The Bear Facts on the Louisiana Black Bear <i>Carrie Salvors</i> LA Department of Wildlife Fisheries
12:45 PM – 1:15 PM	Lesson <i>K-4, 5-8</i>	Exemplary <i>5-8</i>	Lesson <i>9-12</i>	Hands-On <i>General</i>	Lesson <i>9-12, General</i>	Lesson; Exemplary <i>General</i>
12:50 PM LUNCHEON / KEYNOTE ADDRESS						
BREAK / VISIT THE EXHIBIT HALL						
10:10 AM–10:35 AM						
SALONS III/IV						